

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop PATENT APPLICATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This is a request for filing a X continuation or ___ divisional application under 37 C.F.R. 1.53(b), of pending prior application:

Serial No. 10/390,917

Filed on March 19, 2003

Of Takuya Shiraishi et al.

Entitled: Control Apparatus For Internal Combustion Engine And Control Method For Internal Combustion Engine, Combustion Method For Internal Combustion Engine, And Direct Injection Engine

Examiner: E. Solis

Group: 3747

- X 1. Accompanying this order is a new specification that does not contain any subject matter that would have been new matter in the prior application.
Total pages of specification, claims and abstract: 37
- X 2. New Formal drawings are being filed herewith consisting of 11 sheet(s), depicting Figures 1-19.
- X 3. Declaration and Power of Attorney:
- a. ___ Newly executed (original or copy)
- b. X Copy from prior application
- i. ___ Deletion of Inventors - signed statement attached deleting inventor(s) named in the prior application
- X 4. Incorporation by Reference:
- The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 3b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

- 5. Small entity status:
- a. — A small entity statement is enclosed
- b. — A statement of small entity status (copy attached) was filed on — in the prior application and status as a small entity is still proper and desired.
- c. — Is no longer claimed
- X 6. The filing fee is calculated below:

**CLAIMS AS FILED, INCLUDING ANY CLAIMS
CANCELLED OR ADDED BY PRELIMINARY AMENDMENT**

Basic Fee					<u>\$385</u>	<u>\$770</u>
Total Claims	<u>4</u>	-	<u>20 = 0</u>	x	<u>9 = \$0</u>	<u>18 = \$ 00.00</u>
Ind. Claims	<u>1</u>	-	<u>3 = 0</u>	x	<u>43 = \$0</u>	<u>86 = \$ 00.00</u>
	<u>Multiple Dependent Claims</u>			+	<u>145 = \$</u>	<u>290 = \$</u>
	Total				<u>\$</u>	<u>\$ 770.00</u>

- 7. Please charge my Deposit Account No. 05-1323 (Docket #___) in the amount of \$___.
- X 8. A check in the amount of \$770.00 to cover the filing fee is enclosed.
- X 9. The Commissioner is authorized to charge any fee which may be required under 37 CFR 1.16 or 37 CFR 1.17 or credit any overpayment to Deposit Account No. 05-1323 (Docket #056209.52220C1).
- X 10. Amend the specification by inserting before the first line the sentence: --This application is a continuation of application Serial No. 10/390,917, filed March 19, 2003.--
- X 11. Priority of Appln. No(s). 2002-313601, filed in Japan on October 29, 2002, is hereby claimed under 35 U.S.C. 119.
- X 12. A certified copy of each said priority document was filed in application Serial No. 10/390,917 on March 19, 2003.
- X 13. The prior application is assigned of record to Hitachi, Ltd.
- X 14. The power of attorney in the prior application is to:

Herbert I. Cantor, Reg. No. 24,392; James F. McKeown, Reg. No. 25,406; Donald D. Evenson, Reg. No. 26,160; Joseph D. Evans, Reg.

No. 26,269; Gary R. Edwards, Reg. No. 31,824; and Jeffrey D. Sanok, Reg. No. 32,169.

- ☒ a. The power appears in the original application papers in the prior application.
- ☐ b. Since the power does not appear in the original application papers, a copy of the power in the prior application is enclosed.
- ☐ c. Attached is a duplicate of a Supplemental Declaration which was filed in the prior application to overcome informalities.
- ☒ d. Address all future correspondence to:

CROWELL & MORING, LLP
Intellectual Property Group
P.O. Box 14300
Washington, DC 20044-4300

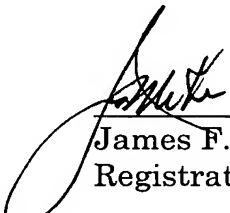
Customer No.

23911

- ☒ 15. Copies of Forms PTO-892 listing prior art made of record in the prior application are attached. A copy of each of the listed references should be available in the prior application file.
- ☒ 16. Return Receipt Postcard.
- ☐ 17. Other: _____

Respectfully submitted,

April 22, 2004



James F. McKeown
Registration No. 25,406

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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 770)

Complete if Known

Application Number	To Be Assigned
Filing Date	April 22, 2004
First Named Inventor	Takuya SHIRAISHI
Examiner Name	E. Solis
Art Unit	3747
Attorney Docket No.	056209.52220C1

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None
☒ Deposit Account:

Deposit Account Number	05-1323
Deposit Account Name	Crowell & Moring LLP

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Charge any deficiency or credit any overpayments to the deposit account of the undersigned. Attorney Docket No. 056209.52220C1☐ Charge any additional fee(s) during the pendency of this application.☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Code	Fee (\$)	Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	770
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					770

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims		Fee from below		Fee Paid
Total Claims	4	-20** = 0	x	18	=	00.00
Indep. Claims	1	-3** = 0	x	86	=	00.00
Multiple Dependent					=	00.00

Large Entity		Small Entity		Fee Description
Code	Fee (\$)	Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) \$				

**or number previously paid, if greater; For Reissues, see above.

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1051	130	2051	65	Surcharge - late filing fee or oath
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet
1053	130	2053	130	Non-English specification
1812	2,520	1812	2,520	For filing a request for ex parte reexamination
1804	920*	1804	920*	Requesting publication of SIR prior to Examination action
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action
1251	110	2251	55	Extension for reply within first month
1252	420	2252	210	Extension for reply within second month
1253	950	2253	475	Extension for reply within third month
1254	1,480	2254	740	Extension for reply within fourth month
1255	2,010	2255	1,005	Extension for reply within fifth month
1401	330	2401	165	Notice of Appeal
1402	330	2402	165	Filing a brief in support of an appeal
1403	290	2403	145	Request for oral hearing
1451	1,510	1451	1,510	Petition to institute a public use proceeding
1452	110	2452	55	Petition to revive - unavoidable
1453	1,330	2453	665	Petition to revive - unintentional
1501	1,330	2501	665	Utility issue fee (or reissue)
1502	480	2502	240	Design issue fee
1503	640	2503	320	Plant issue fee
1406	130	1460	130	Petitions to the Commissioner
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)
1806	180	1806	180	Submission of Information Disclosure Stmt
8021	40	8021	40	Recording each patent assignment per property (times number of properties)
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))
1801	770	2801	385	Request for Continued Examination (RCE)
1802	900	1802	900	Request for expedited examination of a design application

Other fee (specify) _____


*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

Fee Paid

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	James F. McKown	Registration No. (Attorney/Agent)	25,406	Telephone	202-624-2500
Signature		Date	04/22/2004		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.